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September 6, 2007

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Re: Title: METHOD AND APPARATUS FOR SIMULATING PHYSICAL FIELDS
Letters Patent No. 7,124,069
Issued: October 17, 2006
Our Reference: IMEC215.001C1

Dear Sir:

Enclosed for filing is a Certificate of Correction in connection with the above-identified patent.

As certain of the errors cited in the Certificate of Correction were incurred through the fault of the Patent Office and Knobbe, Martens, Olson & Bear, LLP, the \$100 fee will be paid via the EFS Web. However, please charge any additional fees to our Deposit Account No. 11-1410.

Respectfully submitted,

Knobbe, Martens, Olson & Bear, LLP



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Enclosures

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UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF CORRECTION

PATENT NO. : 7,124,069
APPLICATION NO. : 10/630,439
ISSUE DATE : October 17, 2006
INVENTOR(S) : Meuris et al.

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It is certified that errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column	Line	Description of Error
First Page Col. 2 (Other Publications)	2	Delete "differentail" and insert - - differential - -, therefor.
Page 2 Col. 1 (Other Publications)	2	Delete "differentail" and insert - - differential - -, therefor.
1	12	Delete "entirely;" and insert - - entirety; - -, therefor.
1	22	Delete "entirely." and insert - - entirety. - -, therefor.
7	13	Delete "suceptibility," and insert - - susceptibility, - -, therefor.
9	64	After "vector." delete "the" and insert - - The - -, therefor.
12	27 (Approx.)	Delete "sows" and insert - - shows - -, therefor.
13	5	After "direction" insert - - . - - .
18 (Equation 30)	43 (Approx.)	Delete " $-\nabla \cdot \left(e \nabla V + e \frac{\partial A}{\partial t} + e \frac{\partial \nabla \chi}{\partial t} \right) = \chi$ " and insert - - $-\nabla \cdot \left(\epsilon \nabla V + \epsilon \frac{\partial A}{\partial t} + \epsilon \frac{\partial \nabla \chi}{\partial t} \right) = \rho$ - -, therefor.
18 (Equation 31)	46 (Approx.)	Delete " $J - e \frac{\partial}{\partial t} \left(\nabla V \right)$ " and insert - - $J - \epsilon \frac{\partial}{\partial t} \left(\nabla V \right)$ - -, therefor.
18 (Equation 33)	61 (Approx.)	Delete " $\nabla \cdot (e \nabla V) = -\rho$ " and insert - - $\nabla \cdot (\epsilon \nabla V) = -\rho$ - -, therefor.

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18 (Equation 34)	63 (Approx.)	Delete " $J - e \frac{\partial}{\partial t} (\nabla V$ " and insert - - $J - \varepsilon \frac{\partial}{\partial t} (\nabla V$ - -, therefor.
19	35	Delete "co." and insert - - ω . - -, therefor.
19 (Equation 36)	38 (Approx.)	Delete " $\nabla \cdot (e \nabla V) = -\rho$," and insert - - $\nabla \cdot (\varepsilon \nabla V) = -\rho$ - -, therefor.
19 (Equation 37)	42 (Approx.)	Delete " $J - j\omega e \nabla V + e\omega^2 A + e\omega^2$ " and insert - - $J - j\omega \varepsilon \nabla V + \varepsilon \omega^2 A + \varepsilon \omega^2 \nabla \chi$ - -, therefor.
19	66	Delete " $\xi = \xi_0 - \xi e^{j\omega t}$," and insert - - $\xi = \xi_0 - \xi e^{j\omega t}$. - -, therefor.
20 (Equation 50)	61 (Approx.)	Delete " $\nabla \cdot (e \nabla \hat{V}) - \hat{\rho} = 0$," and insert - - $\nabla \cdot (\varepsilon \nabla \hat{V}) - \hat{\rho} = 0$ - -, therefor.
20 (Equation 51)	63 (Approx.)	Delete " $j\omega e \nabla \hat{V} -$ " and insert - - $j\omega \varepsilon \nabla \hat{V} -$ - -, therefor.
22 (Equation 66)	60	Delete " $\int_{\Delta L_{ij}} \nabla V \cdot dS \sim V_j - V_i$ " and insert - - $\int_{\Delta L_{ij}} \nabla V \cdot d\mathbf{l} \sim V_j - V_i$ - -, therefor.
23 (Equation 67)	13 (Approx.)	Delete " $\sim \frac{\Lambda_{ij}}{\mu_0} A_{ij} + \sum_{kl}^{12} \frac{\Lambda_{ij}^{kl}}{\mu_0} A_{kl}$ " and insert - - $\sim \frac{A_{ij}}{\mu_0} A_{ij} + \sum_{kl}^{12} \frac{A_{ij}^{kl}}{\mu_0} A_{kl}$ - -, therefor.

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23 (Equation 68)	23 (Approx.)	$\int_{\Delta V_i} \nabla \cdot (e \nabla V) dv = \int_{\partial(\Delta V_i)} e \nabla V \cdot dS \sim \sum_k S_{ik} e_{ik} \frac{V_k - V_i}{h_{ik}}$ Delete “ $\int_{\Delta V_i} \nabla \cdot (e \nabla V) dv = \int_{\partial(\Delta V_i)} e \nabla V \cdot dS \sim \sum_k S_{ik} e_{ik} \frac{V_k - V_i}{h_{ik}}$ ” and insert $\int_{\Delta V_i} \nabla \cdot (\epsilon \nabla V) dv = \int_{\partial(\Delta V_i)} \epsilon \nabla V \cdot dS \sim \sum_k S_{ik} \epsilon_{ik} \frac{V_k - V_i}{h_{ik}}$ -- , therefor.
23 (Equation 70)	44 (Approx.)	Delete “ $(\nabla \cdot (e \nabla V))$ ” and insert -- $(\nabla \cdot (\epsilon \nabla V))$ -- , therefor.
23 (Equation 73)	61 (Approx.)	Delete “ $j \mu_0 \mathbf{S}_{ij} S_{ij}$ ” and insert -- $j \mu_0 \omega \epsilon_{ij} S_{ij}$ -- , therefor.
23 (Equation 74)	65	Delete “ $S_{ik} e_{ik}$ ” and insert -- $S_{ik} \epsilon_{ik}$ -- , therefor.
24 (Equation 77)	21 (Approx.)	Delete “ $-S_{ij}$ ” and insert -- $-\sigma_{ij}$ -- , therefor.
24 (Equation 80)	53 (Approx.)	Delete “ $\frac{J_{ij}}{\mu_{ij}} = -\frac{a}{h_{ij}} B \left(\frac{-\beta_{ij}}{a} \right) c_i + \frac{a}{h_{ij}} B \left(\frac{\beta_{ij}}{a} \right) c_j$ ” and insert $\frac{J_{ij}}{\mu_{ij}} = -\frac{a}{h_{ij}} B \left(\frac{-\beta_{ij}}{a} \right) c_i + \frac{a}{h_{ij}} B \left(\frac{\beta_{ij}}{a} \right) c_j$ -- , therefor.
25	66 (Approx.)	Delete “FIG.” and insert -- FIGS. -- , therefor.
27	64 (Approx.)	Delete “Amperes” and insert -- Ampere’s -- , therefor.
27	66 (Approx.)	Delete “ $=I^I$.” and insert -- $=I^{(I)}$ -- , therefor.
29	17	Delete “Hehnholtz” and insert -- Helmholtz -- , therefor.
31	45 (Approx.)	Below “struct cubeListPointer *next;” insert -- }; -- .
32 (Equation 94)	39 (Approx.)	Delete “ $\nabla \times \nabla \times A_R - \mu_0 \epsilon \omega^2 A_R - \mu_0 \epsilon \omega \nabla$ ” insert -- $\nabla \times \nabla \times A_R - \mu_0 \epsilon \omega^2 A_R - \mu_0 J_R - \mu_0 \epsilon \omega \nabla$ -- , therefor.

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37	38	Delete "subtractions)=as" and insert - - subtractions) as - -, therefor.
38	20-21 (Approx.)	Delete " $\chi^{\sim}O(10^{-14})$." and insert - - $\chi^{\sim}O(10^{-14})$. - -, therefor.
38	54	Delete " $10^{-8}\Omega m^{-8}$." and insert - - $10^{-8}\Omega m$. - -, therefor.
39	31 (Approx.)	After "with" delete "I" and insert - - I - -, therefor.
39	34 (Approx.)	Delete " $L=[(\mu_0 \ln(b/a))/(2\pi)]$." and insert - - $L=[(\mu_0 \ln(b/a))/(2\pi)]$. - -, therefor.
42	9	Delete " ¹⁸⁹ ," and insert - - I ₈₉ , - -, therefor.
42	17 (Approx.)	Delete " $d_7 x I_{19}$ " and insert - - $d_7 + I_{19}$ - -, therefor.
43	26	Delete " $2n$ " and insert - - 2^n - -, therefor.
47	7 (Approx.)	Before "second" delete "the".
50	42 (Approx.)	Delete "successive" and insert - - successive - -, therefor.
53	1	In Claim 9, delete "A apparatus" and insert - - An apparatus - -, therefor.

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